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of these residues will aid in elucidating the mechanism of translocation and may be useful in developing therapeutic prophylactic agents against anthrax.

PMID: 11113126 [PubMed - indexed for MEDLINE]

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The protective antigen (PA) moiety of anthrax toxin delivitoxin's enzymatic moieties to the cytosol of mammalian comechanism associated with its ability to heptamerize and transmembrane pore. Here we report that mutations in L Asp-425, or Phe-427 ablate killing of CHO-K1 cells by a comparison of PA ligand. These mutations blocked PA's ability to mediate formation and translocation in cells but had no effect on receptor binding, proteolytic activation, or ability to oligibine the toxin's enzymatic moieties. The mutation-sensitive residues lie in the 2beta(7)-2beta(8) and 2beta(10)-2bet of domain 2 and are distant both in primary structure and topography from the 2beta(2)-2beta(3) loop, which is be participate in formation of a transmembrane beta-barrel results suggest that Lys-397, Asp-425, and Phe-427 parconformational rearrangements of a heptameric pore pre

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